

maximum ratings

Voltage, Reverse (VZ)	51.0	V	NO.	1N3037B
Voltage, Reverse Peak (VRM)		V	TYPE	1W-ZENER
Current at VR = OV (IO)		A		
Current Average Rectified (IF)		A		
Current Surge Peak (IZM)	0.018	A	CASE	DO-13
Current, Surge (IFM) at tp =		A		
Max. Power Dissipation (PT) at TC = 25 °C	1.0	W		
Max. Thermal Resistance (Rth J-A)	150.0	°C/W		
Max. Junction Temperature (TJ)	175.0	°C		

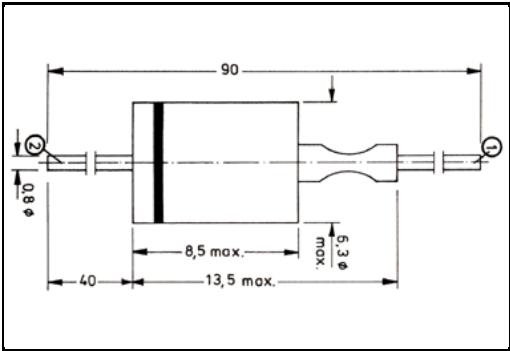
PERFORMANCE CHARACTERISTICS at T_c = 25°C, unless otherwise noted

NO.	SYMBOL	CONDITIONS	MIN.	MAX.	UNITS
1.	VZ	IZ = 5.0 mA, tp = 100.0 μs, dc = 0.1 %	48.4	53.5	V
2.	RZ	IZ = 5.0 mA, ΔIZ = 10.0 % IZ, f = 1.0 kHz	-	95.0	Ω
3.	RZ	IZ = 0.25 mA	-	1500.0	Ω
4.	IR	VR = 38.8 V	-	0.5	μA
5.	VF	IF = 200.0 mA (1)	-	1.5	V
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Notes

(1)pulse-tested tp ≤ 300 μs, duty cycle ≤ 2 %

DIMENSIONS
in mm



Marking

Customer

1N3037B

GENERAL PURPOSE